5. (Amended) A polymerization process according to claim 2, wherein at temperatures of the order of -20° - +25°C, the perfluorodiacylperoxides of structure (A) of formula:

$$R_{f}$$
  $R_{f}$   $R_{f}$ 

are used, wherein when  $R_f$  is -CF<sub>3</sub>,  $R_f$  and  $R_{f'}$  are  $C_1$ - $C_3$  linear or branched perfluorooxyalkyl groups.

- 6. (Amended) A polymerization process according to claim 2, wherein the fluorinated monomers are selected from:
- $C_2$ - $C_8$  perfluoroolefins such as tetrafluoroethylene (TFE), hexafluoropropene (HFP);
- $C_2$ - $C_8$  hydrogenated fluorooletins, such as vinyl fluoride (VF), vinylidene fluoride (VDF), trifluoroethylene, CH<sub>2</sub>=CH-R<sub>f</sub> perfluoroalkylethylene, wherein R<sub>f</sub> is a C<sub>1</sub>- $C_6$  perfluoroalkyl, hexafluoroisobutene;
  - C<sub>2</sub>-C<sub>8</sub> chloro-fluorolefins, such as chlorotrifluoroethylene (CTFE);
- $CF_2$ =CFOR<sub>f</sub> (per)fluoroalkylvinylethers (RAVE), wherein R<sub>f</sub> is a C<sub>1</sub>-C<sub>6</sub> (per)fluoroalkyl, for example CF<sub>3</sub>, C<sub>2</sub>F<sub>5</sub>, C<sub>3</sub>F<sub>7</sub>;
- $CF_2$ =CFOX (per)fluoro-oxyalkylvinylethers, wherein X is: a  $C_1$ - $C_{12}$  alkyl, or a  $C_1$ - $C_{12}$  oxyalkyl, or a  $C_1$ - $C_{12}$  (per)fluorooxyalkyl having one or more ether groups;
- perfluorodioxoles, such as 2,2,4-trifluoro-5-trifluoromethoxy-1,3-dioxole (TTD), 2,2-bis-trifluoromethyl-4,5-difluoro-dioxole (PPD);

sulphonic monomers, such as CF<sub>2</sub>=CFOCF<sub>2</sub>CF<sub>2</sub>SO<sub>2</sub>F;

fluorinated

dienes

such

as

 $CF_2=CFOCF_2CF_2CF=CF_2$ ,

 $CF_2=CFOCCl_2OF_2CF=CF_2$ ,

 $CF_2=CFOCF_2OCF=CF_2$ ,

CF<sub>2</sub>=CFOCF<sub>2</sub>OCCI=CF<sub>2</sub>,

 $CF_2=CFOC(CF_3)_2OCF=CF_2$ .

- 7. (Amended) A polymerization process according to claim 2, wherein the perfluorodiacylperoxide initiator is fed in a continuous way or by a single addition at the starting of the polymerization.
- 8. (Amended) A polymerization process according to claim 2, wherein the amount of perfluorodiacylperoxide initiator is in the range 0.0001% 5% by moles with respect to the amount of the fed monomers.

## **REMARKS**

Claims 1-8 are pending in this application. By this Amendment, claims 4-8 are amended to correct the multiple dependencies thereof and to place this application into better condition for examination. No new matter has been added.